

AMENDMENTS TO THE SPECIFICATION

Page 8 paragraph starting at line14:

In operation, the gain of variable gain amplifier **520** determines whether the output signal of amplifier **540** appears more like waveform **S501e**, or more like waveform **S501f**. The output signal from DAC **525** controls variable gain amplifier **520** to properly shape the low frequency signal, such that when summed with the signal in the high frequency path, the resultant combined signal causes output amplifier **530** to produce a compensated waveform **S501d** at its output terminal. The apparatus of FIGURE 5 has the following three advantages. First, it does not modify the input resistance. Second, because it operates on the low frequency components of the signal, variable gain amplifier **520** does not have to sink high frequency current. Third, this design reduces noise in the signal path because the output signal of variable gain amplifier ~~540~~ **520** is low pass filtered by R-C network **R507**, **C507**.